

WHAT IS CLAIMED IS:

1. A multi-piece solid golf ball comprising a core consisting of an inner core, an intermediate layer formed on the inner core and an outer layer formed on the intermediate layer, and a cover covering the core, wherein
5 the inner core has a flexural rigidity of 20 to 80 MPa,

a ratio (R_M/R_I) of a flexural rigidity of the intermediate layer (R_M) to that of the inner core (R_I) is
10 within the range of 0.6 to 1.4,

a flexural rigidity of the outer layer is higher than that of the inner core by 70 to 500 MPa, and

assuming that a radius of the golf ball is represented by r_G , a radius of the inner core is
15 represented by r_I and a radius of a two-layer structured core obtained by forming the intermediate layer on the inner core is represented by r_T , the intermediate layer is placed such that the r_G , r_I and r_T satisfy the following two formulae:

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$$r_I/r_G \geq 0.70$$

$$r_T/r_G \leq 0.83$$

2. The multi-piece solid golf ball according to Claim 1, wherein the intermediate layer has a thickness of 0.5 to 2.7 mm, and the inner core has a flexural rigidity
25 of 30 to 80 MPa.

3. The multi-piece solid golf ball according to Claim 1, wherein the flexural rigidity of the outer layer is higher than that of the inner core by 70 to 150 MPa.

5 4. The multi-piece solid golf ball according to Claim 1, wherein the inner core has a flexural rigidity of 50 to 80 MPa, the intermediate layer has a thickness of 0.8 to 2.0 mm, and the outer layer has a flexural rigidity of 120 to 500 MPa.